## QUESTIONANIRE FOR ENVIRONMENTAL APPRAISL

## (MINING SECTOR PROJECTS)

Note 1:		All Information given in the form of annexures should be part of this file itself. Annexure as separate files will not be accepted.							
Note 2	2:	Please enter x in appropriate b	oox where answer is Ye	es/No					
1.	Gene	ral Information	ral Information						
	A.	Name of the project							
	B.	Objective of the project							
	C.	Location of mine(s)							
Villag	ge	Tehsil	District	State					
	D.	Does the proposal relate to:	•						
	1.	New mine	Yes	No					
	2.	Expansion							
		(i) Increase in ML area	Yes	No					
		(ii) Increase in annual produ	uction Yes	No					
	3.	Renewal of ML	Yes	No					
	4.	Modernization	Yes	No					
II.	Site I	nformation							
	A.	Geographical Information							
	1.	Latitude							
	2.	Longitude							
	3.	Survey of India Topo sheet	No. (optional)						

	4.	Eleva Sea L	tion above Mean evel			
	B.	Total	lease Area (in ha.)			
	Minin	g Secto	or projects			
	C.	Domi	nant nature of terrain			
		1.	Flat	Yes	No	
		2.	Undulated	Yes	No	
		3.	Hilly	Yes	No	
		4.	Coastal	Yes	No	
III.	Land	usage	of the lease Area (in	ha.)		
A.	Agric	ulture				
B.	Forest	t				
C.	Waste	e Land				
D.	Mang	roves				
Г	<i>C</i> ·					
E.	Grazii	ng				
F.	Marsh	ny				
G.	Surfac	ce wate	r bodies			
H.	Other	(Special	fy)			
	Total					
	1 Otal					

IV.	vv netn	er the mine lea	ase are	a tans in seist	шсану асиче	zone:
	Yes		No		Zone No.	
	If yes, e	earth quakes in				
	A.	Severity (Scale	e)			
	Mining	Sector Project	S			
B.	Impact	i.e. Damage to				
	1.	Life	Yes		No	
	2.	Property	Yes		No	
	3.	Existing mine	Yes		No	
V.	Wheth	er the propose	ed falls	in landslide p	orone zone?	
	Yes		No [			
VI.	Break-	up of the land	use pr	oposed		
	A.	Mining Lease	Area		(In hectares)	
	1.	Area to be min	ned			
	2.	Storage for top	soil			
	3.	Overburden/D	umps			
	4.	Mineral storag	e			
		Infrastructure ( Administrative		•		
	6.	Roads				
	7.	Rails				
	8.	Green Belt				

	9. Township							
	10.	Tailings	pond					
	11.	Effluent	treatmen	t plant				
	12.	Coal har Separati		nt/mineral				
	13.	Others (	specify)					
	14.	Total Ar	ea					
	В.	Townshi	ip (outsid	e mine lease)				
		1. Т	Γotal Area	ı				
		2. N	No. of dw	relling units				
		3. I	Distance f	rom mine site				
VII	. Dista	nce of wat	ter bodie	s (in Km)				
	Distance	e of		River Bank*			ater bodies * k/lake etc.	
	Mine lea	se bounda	ry			(* <b>F</b> 5 /		
	Ancillar	y facilities						
!	*Forr	n highest	flood line	/high tide line		1		
VII	. For p	rojects fa	lling with	nin CRZ				
	<ul> <li>VII. For projects falling within CRZ</li> <li>A. Whether the mineral to be mined is of rare/strategic nature and not available outside CRZ?</li> </ul>							

Yes

No

If so, annex a scaled location map duly certified\* by the Chief Hydrographer in indicating low tide line\* (LTL), high tide line\* (HTL), mining lease area and its distance from LTL and HTL, sand dunes and settlements within 10 km.

## IX. Indicate aerial distance from the periphery of core zone/buffer zone of following (up to 10 km):

S.No.	Areas	Name	Arieal Distance from (in km.) CORE BUFFER ZONE ZONE
1.	National Park		
2.	Sanctuary/Tiger Reserve/Elephant/any other Reserve		
3.	Core Zone of Biosphere		
4.	Habitat for migratory birds		
5.	Archaeological sites (i) Notified (ii) Others		
6.	Defence Installation		
7.	Industries/Thermal Power		
8.	Other Mines		
9.	Airports		
10.	Railways Lines		
11.	National/State Highways		

### X. Description \* of flora & fauna in the core and buffer zones.

[\* Consult the wildlife (Protection) Act, 1972 as amended subsequently and list species with (1) Common name (2) Scientific name and (3) under which schedule of the Wildlife (Protection) Act, 1972 and as amended subsequently the identified species fall. Get the list authenticated by an Expert in the field /credible scientific institute/ Chief wildlife Warden office.]

#### A. Flora

- 1. Agricultural crops
- 2. Commercial crops

	3.	Plantation									
	4.	Natural vegetation/forest type									
	5.	Grass lands									
	6.	Endangered species	Endangered species								
	7.	Endemic species									
	8.	Other (Specify)									
B.	Fauna										
	1.	Total listing of faunal elements									
	2.	Endangered species									
	3.	Endemic species									
	4.	Migratory species									
	5.	Route of migratory species									
	6.	Details of aquatic fauna, if applicable	;								
XI.	Detail	s of mineral reserves									
			Quan	tity (ir	n Million	tones)					
A.	Prover	1									
B.	Indica	ted									
C.	Inferre	ed									
D.	Minea	ble reserves									
XII.	Major	geological formation/disturbances i	in the	mine a	area						
	A.	Geological & Structural maps submit	ted	Yes		No					
	В.	Geomorphologic contour Map/section submitted		Yes		No					

	C.	1.	Faults		
		2.	Dykes		
		3.	Shear Zone		
		4.	Folds		
		5.	Other weak zones		
	D.	Source	e of data		
XIII.		Produ	ction of mineral and life of mi	ne	
	A.	Rated	capacity of mine (million tonne/	annum)	
	B.	Life of	mine(Years)		
	C.	Lease	period (Years)		
	D.	Date o	f expiry of lease (D/M/Y)		
	E.	In case	e of existing mines		
		1.	Date of opening mine		
		2.	Avg. production in the last five	years	
		3.	Avg./Projected production for t 10 years (million tones/annum)		
	E.	Wheth	er plans & sections provided ?	Yes	No

## XIV. Type and method of mining operations

(ii)

Maximum

S.No.	A.TYPE	S.NO.	<b>B.METHOD</b>	
1	Open-Cast	1	Manual	
2	Underground	2	Semi-mechanized	
3.	Both	3	Mechanized	

1	Open	-Cast		1	Manual					
2	Unde	rground		2	Semi-mechanize	d				
3.	Both	8		3	Mechanized					
XV.	Ancilla A. B.	ary oper Existing Addition		processi	ng					
XVI.	Loadi	ng, trans	sportation and unlo	oading o	f mineral and wa	aste rocks on surface:				
	A.	Manual								
	B.	Tubs, m	ine cars, etc.							
	C.	Scrappe	crapper, shovels, dumpers/trucks							
	D.	Convey	ors (belt, chain,etc.)							
	E.	Others (	specify).							
XVII.		Mine de	etails							
	A.	Open ea	ast mines							
	1.	Strippin	g ratio (mineral to o	ver burd	len in tonne/m <sup>3</sup> )					
	2.	Thickne	ss of top soil (in m.	)						
		(i) I	Minimum							
		(ii)	Maximum							
		(iii)	Avg.							
	3.	Thickne	ss of overburden (ir	n m.)						
		(i) I	Minimum							

	(iii)	Avg.		
В.	Unde	rground mines		
			Depth(m)	Thickness (m)
	1.	Seam/Ore body		
	2.	Mode of entry into the min	ne	
	(i)	Shaft		
	(ii)	Adit		
	(ii)	Incline		
3.	Detai (i)	ls of machinery to be used On surface		
	(ii)	At Face		
	(iii)	For transportation		
	(iv)	Others		
4.	Meth	od of stoping (metalliferrous	s mines)	
	(i)	Open		
	(ii)	Filled		
	(iii)	Shrinkage		
	(iv)	Caving		
	(v)	Combination of above		
	(vi)	Others (Specify)		
5.	Depil (i)	laring method Caving		

	(ii)	Stowing		
	(iii)	Partial extraction		
6.	Venti (i)	lation arrangement Existing		
	(ii)	Proposed		
7.	Subsi	idence		
	(i)	Anticipated subsidence	e (in m.)	
	(ii)	Magnitude of surface	strains	
	(iii)	Slope change		
	(iv)	Identified possible sub	osidence areas	
	(v)	Major impacts on natubodies, etc.	ıral drainage patte	ern, human habitat, water
	(vi)	Salient features of sub	osidence monitoria	ng and control.
XVIII.	Surfa	ace drainage pattern at	mine site	
	A. W	That is the pre-mining sur	face drainage pat	tern at the site?
		o you propose any modi he existing natural drain		in Yes No.
	o: i.	rovide location map indiffered for flow of water, and proget realignment of river/norithin core zone.	posed route/chang	ges, if any
XIX.	Vehi	cular traffic density		
	A.	Existing	Туре	No. of vehicles per day
	B.	After the proposed activity		
	C.	Whether the existing	Yes	No.
	D	Road network is adequ		nosal

XX.	Mineral(s) transportation from the mine site				
	A.	Road	Qty.(in TPD)	Percentage (%)	
	B.	Rail			
	C.	Conveyors			
	D.	Rope way			
	E.	Water ways			
	F.	Pipeline			
	G.	Other (Specify)			
		Total			

XXI. Status of mining lease area (in ha.)

Purpose	Required Required				Acquired				To be a	cquired	
	Govt.		Private		Govt.		Private		Govt.	-	Private
	Forest	Oth ers	Agriculture	Others	Forest	Others	Agriculture	Others	Forest	Others	Agricı
1. Mining area											
2. Area for storage/dumps											
3. Ancillary facilities (processing plant etc.)											
4. Tailing dam/pend											
5. Township											
6. Area for green belt											
7. Roads etc.											
8. Other infrastructure (Specify)											
Total:											

XXII.	Basel	ine Mete	eorological & Air Quality data
	A.	1.	Micro-meteorological data
			(Continuous monitoring for full season except monso

(Continuous monitoring for full season except monsoon through autographic instrument)

2. Seasonal wind rose pattern (16 points of compass i.e. N,NNE,NE,---)

- Day time

- Night time
- 24-hours period
- 3. Site specific monitored data

Month	Hourly Average Wind Speed (kmph)	Cloud Cover**
	12330/31 day	(Octas of sky)

4.	Rainfall	(in	mm.	)

- (i) Total (Annual)
- (ii) 24 hr highest
- 5. Wind speed (kmph)
  - (i) Max.
  - (ii) Mean
  - (iii) % of Calm
- 6. Temperature (deg. Celsius)
  - (i) Min.
  - (ii) Max.
  - (ii) Mean
- 7. Relative Humidity (%)

Mean

<sup>\* 24-</sup>Hours rainfall Mean should be reported 08:30 hrs. IST of previous day to 08:30 hrs IST of the day.

<sup>\*</sup> Rainy day is considered when 24 hrs. rainfall is > 2.5 mm.

<sup>\*\*</sup> Visual observations of cloud cover should be recorded four times a day at regular intervals.

### B. Ambient air quality data\*(RPM, SPM, SQ, NOx, CO)

\*Frequency of monitoring should be **a** per guidelines of CPCB and monitoring should cover one full season except monsoon.

- 1. Season & period for which monitoring has been carried out
- 2. Frequency of sampling
- 3. No. of samples collected at each monitoring station

Day, Time and Location	Wind Speed and Direction	24-hr. µg/ <sup>m3</sup>	24-hr. concentrations as monitored (in $\mu g/^{m3}$					Permissible AAQ Standards		Name of instruments used and senstivity
		SPM	RPM	$SO_2$	Nox	CO	Pb**	EPA*	SPCB	

<sup>\*</sup>EPA-As notified under the Environment (protection)Act,1986

AAQ as monitored (24 hourly)

	SPM	RPM	$SO_2$	Nox	CO	Pb**
Max.						
Min.						
Mean						
98 percentile						

<sup>\*\*</sup> For mineral specific site only

#annex a location map indicating location of AAQ stations, their direction & distance w.r.t. project site.

# Attach additional sheets as required to provide complete data as mentioned for one season.

### XXIII. Stack emission detail, if any

(Frequency of stack monitoring should be as per CPCB guidelines)

S.No	Process/unit of operation (e.g. DG Set, Boiler)	Height of Stack (m)	Internal top dia.(m)	Flue Gas Exit Velocity	Emissio	on rate (	Heat emission rate from	Exl Flu Ter		
				(m/sec)	SPM	NOx	SO2	СО	I	in c

A. Equipment used for stack monitoring

## XXIV. Details of fugitive emissions during mining operations

## **XXV.** Air Quality Impact Prediction (AQIP)

- A. 1. Details of model(s) used for AQIP includinggrid size terrain features, and input meteorological data
  - 2. Maximum incremental GLC values of pollutants based on prediction exercise

(in ug/m3)

S.No.	Pollutants	Incremental Value	Ambient Air Quality	Resultant Air Quality
1.	SPM			
2.	RPM			
3.	SO2			
4.	MOX			
5.	СО			

## XXVI. Water requirement (m³/day)

Purpose	Avg. Demand	Peak Demand
A. Mine site		
1. Mine Operation		
2. Land reclamation		
3. Dust suppression		
4. Drinking		
5. Green Belt		
6. Beneficiation		
7. Washeries		
8. Fire Service		
9. Others (pl. specify)		
B. <u>Township</u>		
1. Green Belt		
2. Domestic		
3. Other(pl. specify)		
TOTAL		

XXVII. Source of water supply\*

S.No.	Source	M <sup>3</sup> /day
1.	River (name)	
2.	Groundwater	
3.	Other surface water bodies (pl. specify)	

<sup>\*</sup> Annex a copy of sanction letter from the concerned authority for drawing water.

## XXVIII. Lean season flow in case of river (cumees)

## XXIX. Ground water potential of the area

	•	
A.	Average water table (metres) below gro	ound level
1.	Pre-monsoon	
2.	Post-monsoon	
B.	Annual recharge rate (cubic metres)	
C.	Avg. withdrawal rate (cubic metres)	

## XXX. Physico-chemical analysis\* of water at intake point (\*All parameters as per drinking water standards)

## XXXI. Competing users of the water source

S.No.	Usage	Present Consumption		Additional		Total	
		including pum	ping (m <sup>3</sup>	as per local plan (m <sup>3</sup>		$(m^3/day)$	
		/day)		/day)			
		Surface	Ground	Surface	Ground	Surface	Ground
1.	Irrigation						
2.	Industry						
3.	Mining						
4.	Domestic						
5.	Others (specify)						
Total							

## **XXXII.** Waster Water Management

	A.	Daily discharge (m³/day) from different	ent sources
	1.	Mine discharge	
	2.	Workshop	
	3.	Domestic	
	4.	Beneficiation	
	5.	Washeries	
	6.	Others (Specify)	
	7.	Total	
В.		ou planning to provide waste treatment plant? Yes	No No
C.	Quanti recycle	ity of water recycled/reused/ to be ed in	
	1.	Percentage	
	2.	$(M^3/day)$	

D.	Point of fina	l discharge

Final Point	Quantity discharged (in m³/day)
1. Surface	
(i) Agriculture land	
(ii) Waste land	
(iii) Forest land	
(iv) Green belt	
2. River	
3. Lake	
4. Estuary	
5. Sea	
Total	

E. Users of discharge water
-----------------------------

F.

1. Human Yes No Solution No So						
3. Irrigation Yes No  4. Industry Yes No  5. Others (specify)  Details of the Water body where final effluent is/will be discharged	1.	Human	Yes		No	
4. Industry Yes No  5. Others (specify)  Details of the Water body where final effluent is/will be discharged	2.	Livestock	Yes		No	
5. Others (specify)  Details of the Water body where final effluent is/will be discharged	3.	Irrigation	Yes		No	
Details of the Water body where final effluent is/will be discharged	4.	Industry	Yes		No	
	5.	Others (specify)				
1. Average flow rate	Details	of the Water body when	e fina	l effluent	is/will	be discharged
	1.	Average flow rate				

3. Aquatic life

Lean season flow rate

2.

4. Analysis of river water 100 metersupstream and 100 meters downstream of discharge point.

XXXII. Water balance statement in the form of flow diagram indicating source (s), consumption (section-wise) and output.

#### XXXIV. **Solid Waste**

A. Solid waste quantity and quality

Name (Lump/fines/slurry/Sludge/others)	Composition	Quantity (m³/month)	Method of disposal			
1. Mining activity			•			
a. Top Soil						
b. Over burden						
c. Others (specify)						
2. Effluent Treatment Plant (sludge)						
Total						
Annex layout plan indicating the dun	np sites					
	1. Does waste(s) contain any hazardous/toxic Yes No substance/ radioactive materials or heavy metals?					
2. If yes, provide details and	precautionary mea	asures.				
C. Recovery and recycling poss	C. Recovery and recycling possibilities					
D. Possible user (s) of the solid waste						
E. 1. Is the solid waste suitable for backfilling?						
Yes No 2. If yes, when do you propose to start backfilling						
Solid waste(s) Accumulated	To be gener					
	(B)	backf A	B			
Over burden			1			
Others (Specify)						

- Reclamation & rehabilitation plan F.
- In case waste is to be dumped on the G. ground, indicate
  - 1. Associated environmental problems
  - Number & type of waste dumps 2.
    - (i)
    - Height of dumps (metres) Slope of the dump (angle) (ii)
    - Proposed bio-engg. Mitigation measures (iii)

## XXXV. Noise level (dB)

### A. Source

S.No.	Source	Noise Level (dB)		
		Max.	Min.	Mean

#### B. Abatement measures

## XXXVI. Fuel/Energy requirements

A. Total power requirement (MW)

	11. Total power requirement (1111)					
S.No.		Mine Site	Township	Others (specify)	Total	
				(specify)		
1	Present					
2	Proposed/additional					
	Total					

B. Source of power (MW)

S.No.		SEB/Grid*	Captive power plant	DG Sets
1	Present			
2	Proposed			
	Total			

<sup>\*</sup> Annex a copy of the sanction letter from the concerned authority

## C. Details of fuels

S.No.	Fuel**	Daily Consumption (TPD)		Calorific value (Keals/kg)	% Ash	% Sulphur
		Existing	Proposed			
1	HSD					
2	LSHS					
3	Other (specify)					

**XXXVII.** Storage of inflammable/explosive materials

S.No.	Name	Number of Storages	Consumption (in TPD)	Maximum Quantity at any point of time
1	Diesel			
2.	Fuel Oil			
3.	Explosives			
4.	Others (pl. specify)			

XXXV	III.	Occupational and community health, safety and hygiene				
	A.	What major occupational and community health and safety hazards (urface and U/G fire, inundation, explosion etc.) are anticipated?				
	B.	What provisions have been made/prorequirement?	posed to conform to health and safety			
	C.		comprehensive report on health status of the			
	D.	workers Mineralogical composition of RPM(c	lust)			
	E.	Details of personal protective equipm	nent provided/to be provided to the workers			
	F.	Information on radiation protection n	neasures, if applicable.			
XXXIX	Х.	Plantation				
	A.	Lease area (in ha.)	Existing mine New mine			
		1. Area broken up				
		2. To be broken up				
		3. Unbroken area				
	B.	Total Township area (in ha)				
	C.	Area afforested and proposed (in ha.	)			
		Peripheral 1. Existing	Dumps Roads Township Others			
		2. Proposed				
	D.	No. and type of trees planted & prop	sed			
		<ol> <li>Existing         <ul> <li>(i) when plantation was started</li> </ul> </li> </ol>	ed? Date			
		(ii) No. (iii) S	Survival rate%			
			avg. height n m)			
		2. Proposed				
		Type of species	Number (Per ha)			
	1		1			

#### XL. Human Settlement

	Core Zone	Buffer Zone
Population*		
Number of households		

<sup>(\*</sup> As per latest available census record or actual survey)

### XLI. Rehabilitation & Resettlement (R&R) Plan

- A. Name and no. of villages falling within
  - 1. Core zone
  - 2. 500 m from the blasting site (s)
  - 3. Township site
- B. Village(s) affected by the project:

S.No.	Village name (within	Population		Population		Occupation	Average Annual Income
	mine lease)	Tribal	Others				

C. Population to be displaced/Land oustees

Name of Village(s) falling	Number of oustes					
within	Land (only)	Homestead (only)	Land and			
			Homestead (Both)			
Mining Lease						
1.						
2.						
??						
??						
Township Site						
1.						
2.						
??						
??						

- D. Whether R&R plan has been finalized? If yes salient features of R&R plan for oustees
- 1. Site where the people are proposed to be resttled & facilities to be provided
- 2. Compensation package including funds earmarked
- 3. Agency/Authority responsible for their resettlement
- 4. Period by which resettlement of Project Affected People will be over

#### **XLII. Pollution Control**

A. Details of pollution control measures

S.No.		Existing	Proposed to be installed
1	Air		
2	Water		
3	Noise		
4	Solid Waste		

### B. For existing units

- 1. Difficulties encountered in implementing pollution control measures/Environmental management plan.
- 2. Efficiency of each of the pollution equipment/system installed

S.No.	Name of the system/equipment	Design efficiency %	Present working efficiency%	

C. For proposed Units

S.No.	Name of the system equipment	Design efficiency %

XLIII.	Capital cost of the project in Rs. Lakh	
	(as proposed to the funding agency/financial institution)	

XLIV. Cost of environmental protection measures in Rs. Lakh

S.No.		Capital cost	Recurring Cost per annum
1.	Pollution Control		
2.	Pollution Monitoring		
3.	Occupational Health		
4.	Green Belt		
	(Mine+Township)		
5.	Reclamation/Rehabilitation of mined		
	out area		
6.	Others (specify)		
	Total		

## XLV. Amount earmarked/proposed for socioeconomic welfare measures for the nearby villages other than R&R plans.

- A. Villages(name) to be adopted, if any
- B. Socio-economic package
- C. Amount earmarked (in Rs. Lakh)

## **XLVI. Public Hearing**

A. Date of Advertisement

C.	Date of hearing (D/M/Y)						
D.	Public Hearing Panel chaired by & members present						
E.	No. of people attended the public hearing meeting and number of people from the lease area.						
F.	Summary/ details of public hearing in tabular form						
[		raised by Public	Response/Con			Suggestions made by	
		Ť	project Propo			public hear	ring
XLVII.	Wheth	er the following a	pprovals*(who	ereve	r applicable	e) have bee	n obtained?
	A.	Site clearance fro	m MoEF		Yes	No	
	B.	NOC from State I Board	Pollution Contr	ol	Yes	No	
	C.	NOC from Atomi	ic Energy Divis	sion	Yes	No	
	D.	Mining plan appro Ministry of Coal	oval from IBM	/	Yes	No	
	E.	Forestry clearance	e under FCA,1	980	Yes	No	
	F.	Chief Controller	of Explosives		Yes	No	
	G.	Commitment regard Of water and pow concerned State	ver from the	lity	Yes	No	
	*(Anne	ex copies)					
XLVIII.		there any court of thereof.	case relating to	the p	project or r	elated activ	vities? If so,
The data and in	ıformatio	on given in this Per	rforma are true	to the	e best of my	y knowledge	e and belief.
Date:	Signature of the Applicant with full name & address.				ith		
Place:		Given under the seal of organization On behalf of whom the applicant is signing					

Newspapers in which the advertisement appeared

B.

# $\frac{\textbf{LIST OF DOCUMENTS TO BE ATTACHED WITH THE MINING PROJECTS}}{PROFORMA}$

S.No.	Documents	Refer
		Proforma
		Ques.
1	A 1.1 (1.2500) 1.1 (1.11 1.11 1.11 1.11 1.11 1.11 1.1	No.
1.	A scaled map (1:2500) duly certified* by the Chief Hydrographer indicating low	8(A)
	tide line* (LTL), high tide line*(HTL), mining lease area and its distance from LTL and HTL, sand dunes and settlements within 10 Km.	
2.	·	12(A)
3.	Geological and structural maps.  Geomorphological contour map/section.	12(A) 12(B)
4.	Plan and sections	` '
5.	A location map of the mine lease area indicating existing water bodies (river,	13 (F)
3.	nallah, other drainage channel), direction of flow of water, contours and proposed	18(B)
	changes in alignment of river/stream/nallah/any other water body, if any.	ļ
6.	Seasonal wind rose diagrams for day time, night time and 24hours period	22(A.2)
7.	A location map indicating AAQ stations, their direction and distance with respect	
7.	to the project site.	22(0)
8.	Physico-chemical analysis report of water at intake points (all parameters as per	30
	drinking water standards)	
9.	Water balance statement in the form of flow diagram indicating input sources(s)	33
	consumption (section-wise) and output.	
10.	Analysis report of water 100 m upstream and 100m downstream of discharge	32 (F.4)
	point	
11.	Layout map indicating solid waste/top soil dump site(s)	34(A)
12.	Mine site reclamation and rehabilitation plan.	34(F)
13.	Fuel analysis report	36(C)
14.	A report on health status of workers	38(C)
15.	Public hearing report	46(F)
16.	A copy of site clearance letter.	47(A)
17.	A copy of NOC from the State Pollution Control Board	47(B)
18.	A copy of NOC from the Atomic Energy Divison	47(C)
19.	A copy of mining plan approval from IBM/Ministry of Coal	47(D)
20.	A copy of forestry clearance	47(E)
21.	A copy of approval of Chief Contrdler of Explosives	47(F)
22.	Copies of commitments regarding availability of water and power from the concerned State authorities	47(G)
	concerned state authornies	